

AMENDMENTS TO THE SPECIFICATION

IN THE DESCRIPTION

Please amend the "Brief Description of the Drawings" found on page 5 beginning at line 17 as follows:

Figure 1 depicts a drilling system.

Figure 2A prior art shows a conventional measurement system simplified diagram.

Figure 2B is a simplified diagram of the present invention.

Figure 3A is a detailed view of the data acquisition portion of the present invention with a cutaway showing a sample contained therein.

Figure 3B is an enlarged cross sectional view of an aperture in the present invention.

Figure 3C shows the cutaway of Figure 3A.

Please amend the paragraph beginning on page 10 line 11 as follows:

In Figs. 3B-C, an enlarged aperture cross section is shown which is substantially similar to all other apertures in the preferred embodiment. An electromagnetic shielding material **73** such as a soft ferrite is positioned within each aperture for protecting the cylindrical enclosure from the electromagnetic radiation. Toward the inner surface, antenna wire **64** is fixed in said apertures with and a potting material **71** which also provides protection for said antenna wire. In a preferred embodiment, the potting material is an epoxy resin.